

Title (en)
RECOMBINANT APOLIPOPROTEINS AND METHODS.

Title (de)
REKOMBINANTE APOLIPOPROTEINE UND VERFAHREN.

Title (fr)
APOLIPOPROTEINES RECOMBINANTES ET PROCEDES.

Publication
EP 0239631 A4 19890112 (EN)

Application
EP 86906545 A 19861002

Priority
• US 78441885 A 19851004
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Abstract (en)
[origin: WO8702062A1] A method of producing a purified lipid-binding peptide which can bind to phospholipids at one or more amphipatic alpha-helical peptide regions. The method includes providing a gene coding for the peptide, and introducing the gene in expressible, heterologous form in a suitable expression system capable of synthesizing a mixture of peptides which includes the lipid-binding peptide. Addition of either endogenous or exogenous lipids to the peptide mixture forms a low-density lipopeptide complex composed of lipid and the lipid-binding peptide, and this complex can be separated easily from nonlipid-binding peptides in the peptide on the basis of its size and/or density. The method is intended particularly for scaled-up production of purified human apolipoproteins and their alpha-helical lipid-binding regions. Also disclosed are related methods for producing recombinant apolipoproteins, therapeutic lipopeptide compositions, and a stabilized lipid emulsion for nutritional therapy. Further disclosed are methods for expressing apolipoproteins or lipid-binding segments thereof in bacterial, yeast and mammalian cell expression systems, and methods for purifying lipid binding proteins, including fused recombinant proteins.

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Citation (search report)
• [XP] WO 8604920 A1 19860828 - BIOTECH RES PARTNERS LTD [US]
• [E] WO 8702061 A1 19870409 - BIOTECH RES PARTNERS LTD [US]
• [A] EP 0173280 A1 19860305 - BIO TECHNOLOGY GENERAL CORP [US]
• [XP] PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCE, USA, vol. 83, March 1986, pages 1467-1471, Washington, DC, US; A.A. PROTTER et al.: "Isolation of a cDNA clone encoding the amino-terminal region of human apolipoprotein B"
• [T] JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 262, no. 9, March 1987, pages 4241-4247, The American Society of Biological Chemists, Inc., Washington, DC, US; J. BEDNARZ MALLORY et al.: "Expression and characterization of human apolipoprotein A-I in Chinese hamster ovary cells"
• [X] JOURNAL OF MEDICINAL CHEMISTRY, vol. 25, no. 10, October 1982, pages 1115-1120, American Chemical Society, Washington, DC, US; R.E. COUNSELL et al.: "Lipoproteins as potential site-specific delivery systems for diagnostic and therapeutic agents"
• See references of WO 8702062A1

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